

4/76

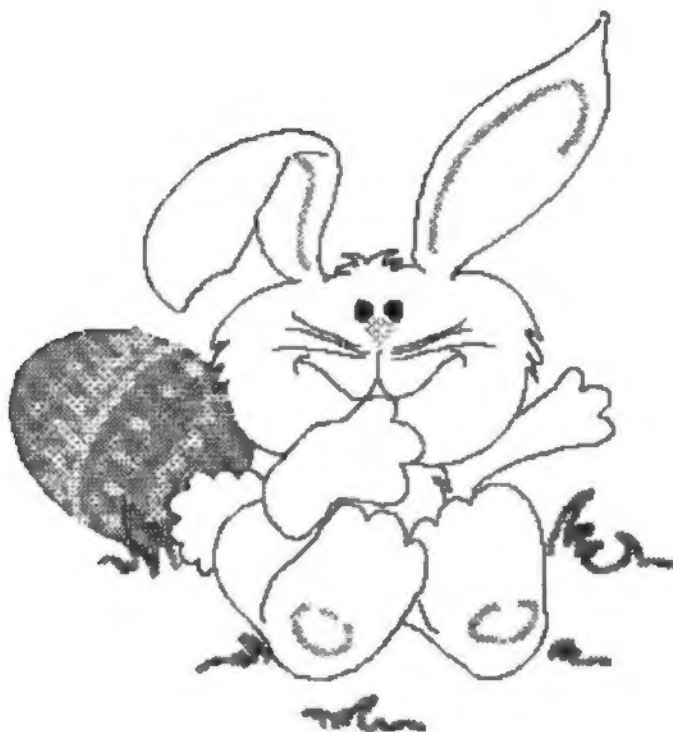


ARRL  
CLUB  
#1602



60 cents  
"cheep"

# HAPPY EASTER



Published by the  
Utah Amateur Radio  
Club HAM  
HOTLINE-583-3002  
The MICROVOLT  
632 University Street,  
Salt Lake City, Ut.  
84102

## the MICROVOLT

PLEASE SEND DUES TO:

U.A.R.C.

c/o GARY OPENSHAW

861 ROOSEVELT AVE.

S.L.C. UT 84105

SEND TO:

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**Microvolt Midnight Copy-Editors and Coordinators of Mischief- Lon Stuart's Trolls**

The Utah Amateur Radio Club was organized under its present name in 1927, although its beginnings may date back as early as 1909. In 1928, it became affiliated with the American Radio Relay League (club #1602) and is a non-profit organization under the laws of Utah. It holds a club station license with the call W7SP, a memorial call for Leonard (Zim) Zimmerman, an amateur radio pioneer in the Salt Lake City Area. The club meets each month except July and August. The meetings are held on the first Thursday of the month at 7:30 PM in the Exhibition hall located on the Salt Lake County Fairgrounds just south of Murray City Park. Club membership is open to anyone interested in amateur radio; a current license is not required. Dues are \$13 per year, including a MICROVOLT subscription. Those living at the same address as a member who has paid \$13 may obtain a membership without a Microvolt subscription for \$9. ARRL membership renewals should specify ARRL Club #1602. UARC maintains the following repeaters: 146.62 (main) and 449.10. The repeaters are administered by the UARC repeater committee. Comments and questions may be directed to any committee member. The Lake Mountain repeater (146.76 minus offset) has Antopatch facilities on both the Orem exchange (covering Setaquin to Lahi) and the Salt Lake City exchange (covering Draper to Layton). The 449.10 repeater has antopatch facilities into Salt Lake City only. Due to the volume of traffic, only mobiles should use this antopatch. Antopatch use is open to all visitors to our area and to all club members. New members who wish to use the Antopatch are encouraged to help with and maintaining a club membership. THE MICROVOLT: The Microvolt is the official publication of the club. Deadline for submissions to the Microvolt is the 10th of each month prior to publication, except Aug. All submissions are welcome but what is printed and editing are the responsibility of the UARC board. Reprints are allowed with proper credits to the MICROVOLT, UARC, and authors.



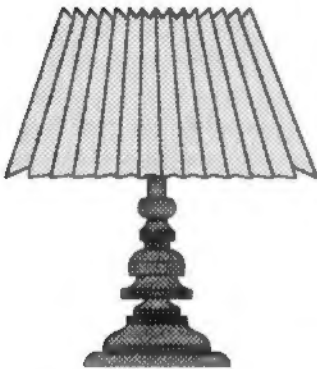
# THE MICROVOLT

Publication of the Utah Amateur Radio Club

## "APRIL FOOLS EDITION"

VOLUME XL ISSUE 4

APRIL, 1996



### Feature Of The Month

This month we are featuring Maurine Streckenfinger, our new MicroVolt Assistant Editor. Maureen was released from prison in 1955. She is 125 years old. Maurine has 15 children and holds an Extra Extra Class license that was given to her by President Clinton in a fit of passion. Way to go Maurine! Congratulations! **APRIL FOOLS!** Had you going didn't I? It wasn't me, it was Lon Stuart's white bearded, trouble making trolls! ED-Now on to the real feature of the month from Linda Reeder. This month we are featuring Maurine Streckenfinger, KC7HOZ. Maurine became interested in amateur Radio through her husband Rolf KC7HPA who is a Mission pilot for Civil Air patrol. He and Maurine used to listen to the 146.62 repeater on the Kenwood 28A hand held that he was using for Civil Air Patrol. She knew everyone so well that it seemed natural when she met them in person that they would know who she was. Maurine and her husband decided they would study together for their licenses and study they did every night for two



months. They both received their nocode licenses on new years eve DEC 31, 1994 and they are working very hard on the Morse code. Maurine has been elected assistant editor of the Microvolt. The assistant editor's job is to put the labels on the Microvolts, separate them into zones, put them into separate bags and takes them to the main post office. Maurine says that this takes about two or three of her evenings once a month to accomplish this task. Maurine really enjoys this job. She says it brings back memories when she was growing up. Her father owned his own cement business and after school she would put washers on the form ties. Now, Maurine has her own business making and selling lamp shades.

Maurine, we know you'll do a great job!

-73 N7HVF Linda Reeder

### Ham Hotline

(801)583-3002

\*\*\*\*\*

### Tentative 1996 Schedule Update

APRIL4: Handi-Hams (Videos) Linda Reeder

MAY	2: Marvin Zitting (W7MR) on code/contesting
JUNE	6: Field Day Meeting
JUNE	22 & 23: Field Day <u>WHERE PENDING</u>
JULY	13: Steak Fry (The Spruces) <u>NOTE DATE CHANGE</u>
AUG.	2, 3, 4: WIMU Held at Olympia Park Hotel, Park City
SEPT.	5: Swap Meet
OCT.	3: Planned- Vintage Radios (Not firm schedule)
NOV	7: HomeBrew and Election Nominations
DEC.	5: Elections and Plans for The New Year



## April Regs Shock!

Hot on the heels of massive license fee increases, the Government has announced that from April 1, 1996, compulsory hard hat zones must be established around radio towers or masts, for a radius equal to the height of the tower or mast plus 20 meters. (**NOTE THIS IS ALL AN APRIL FOOLS JOKE....**) Any person entering into such a zone must be wearing a government-approved head protection apparatus. This regulation also applies to masts installed at homes to support amateur radio antennas.

A government official said the new regulations were necessary because of a side effect of the depletion of the ozone layer. As well as limiting the passage of ultraviolet radiation, the ozone layer has also limited the passage of gravity waves. Now with the ozone layer's depletion, scientists are measuring increasing gravity as well as increasing ultraviolet radiation.

The effect of this is that everything weighs more, even though nothing has increased in mass. But the perceived weight increase means that structures designed to support a particular weight may no longer be safe. It is believed that the effect of gravity will continue to increase over time, so simply re-designing a structure for increased stresses will not be good enough since it will soon become unsafe once again. So the decision was made to require all people working or recreating near tall structures to wear safety helmets.

Advance notice of this development came when it was discovered that scientists in Los Alamos were wearing hard hats while hiking in the

## THE MICROVOLT

mountains surrounding the town. Conservationists heard about it and immediately launched an on-site protest, thinking that the hard-hatted hikers were in fact timber workers intent on chain-sawing down all the trees. The conservationists formed a line and chanted "Where are the bulldozers?" but the scientist-hikers responded with "There aint no bulldozers; just cover your heads!" They then explained that the limbs were spontaneously falling from the trees, so bulldozers were not necessary.

The Los Alamos incident received wide coverage on the CBS Report television show just prior to Christmas, and news of it will soon spread worldwide. When the United States first heard of this, the Government moved quickly, with the Department of Enmirement drafting a bill to be presented to the House of Representatives implementing the new helmet regulations, immediately applying them to hikers here, and announcing a blanket regulation for sleeping bags beginning in July 1. The effected women described this action as discriminatory.

This situation was clearly evident in local television coverage with scenes of wild confrontations in the mountains between the conservationists and people wearing helmets. Unfortunately since the government had failed to announce the new helmet regulations to anyone but hiking organizations, the people thought that the helmeted people were timber workers chopping down the trees. The helmets retorted; "but we are innocent scientists, and the trees are falling down by themselves!"

However the media was not convinced, having seen no government announcement about helmets.

The new helmet requirements will have a profound effect upon the telecommunications industry. Many radio and television towers are several hundred meters high, so anyone passing within the distance of the towers (plus twenty meters) must be wearing a helmet. This could cause problems in areas such as Salt Lake City, where public streets enter within the helmet exclusion zone.

From July 1 it is planned to establish helmet rental facilities at the entries and exits of the helmet zones, so pedestrians and vehicle occupants can rent a helmet for a fee of \$15 or \$20, pass through the zone, and then return the helmet to the exiting rental station.

Revenue raised from the rental fees will go into the Government's Sport Department to help fund the Super Bowl.

Speaking of sports, it has been announced that basketball players will begin wearing helmets to protect their heads in case of stadium light towers



should they collapse. Astute television viewers will note that this regulation has applied to football players for some time. In 1997 it is planned to extend the regulation further to spectators, as well as players at football and basketball games.

With continuing depletion of the ozone layer, it is anticipated that helmet regulations will be extended to all occupants of vehicles from the start of 1998. Scientists believe that by then, design strengths of vehicle roofs will be insufficient, and they may be collapsing (the roofs, not the scientists). And by 1999 the regulations may be extended to anyone inside buildings, including private homes, even while they are asleep in their beds, or bags. Again, there are fears for the integrity of roof designs.

Should ozone depletion continue at the present rate, and gravity waves further increase, there are plans to introduce compulsory helmets for all people who are outdoors, unprotected by roofs. This suggestion has been confirmed by Chief Scientist at the Institute of Atmospheric Gravity at Los Alamos, Dr. Charles (Chick) Little. When asked about all the concerns and plans for compulsory helmets, he commented "The sky is falling, the sky is falling!" We will keep you updated in further April Fools Editions of The MicroVolt.

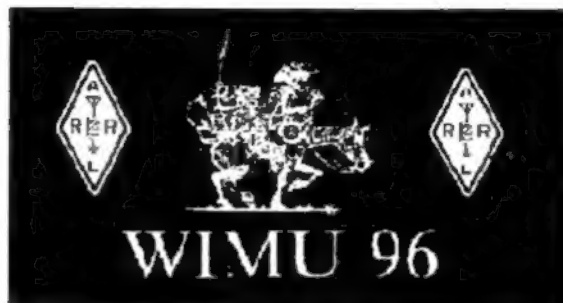
## APRIL FOOLS!



### **JUST FOR GIGGLES:**

*On organizations like UARC, the saying goes; "In any organization there will always be one person who knows what's going on. This person must be fired."*  
(HI)

## THE MICROVOLT



## More WIMU '96

Remember that The 64th Annual Wyoming, Idaho, Montana and Utah Amateur Radio Convention (WIMU) for 1996 will be held August 2, 3, and 4 in Park City, Utah. For reservations you can call the Olympia Park Hotel at 1-800-234-9003 for reservations starting now. We have been given a special rate of \$62 per room, plus tax, single or double occupancy. Be sure to tell them that you are a part of WIMU to get the discount.

Camping reservations may be made with the Hidden Haven Campground (6 miles west of the hotel at the Kimball Junction exit of I-80) by calling 801-649-8935.

The hotel and campground hosts have suggested that reservations be made as early as possible due to the Arts Festival being held that same weekend. Some of the spectacular activities that have been scheduled for the HAMS and their families, are a multitude of forums and a lot of prizes. The forums include;

- Packet Radio
- Batteries
- QRP-low power Operation
- DX Operations
- Basic Radio Etiquette For New Hams
- Winter Driving Techniques By UTHP
- CW Operations
- ARES/RACES 72-Hour Kits
- Satellite Communications
- Antennas
- Radio Direction Finding
- MARS Emergency Reporting
- Electronic Test Equipment and Building Techniques
- HANDI- HAMS
- Ballooning and Amateur Radio

- ARRL Discussion With Visits From Headquarters

But in some earlier Microvolt did someone mention prizes? YEAH!

**FIRST PRIZE- ICOM-707 HF TRANSCEIVER!**

Other prizes that will be awarded at the Sunday Morning Brunch:

**ALINCO DR-130T 2 METER MOBILE TRANSCEIVER**

**KENWOOD 22AT 2 METER HANDHELD**

**MFJ-784B TUNEABLE DSP FILTER FOR ALL DIGITAL MODES, SSB & CW**

**POWER PLUS HL 35V 2 METER AMPLIFIER**

**TUCKER T-1000 ANTENNA TUNER FOR HF**

**TUCKER TM-3000 UV 100-500 MHz**

**CROSS-NEEDLE SWR/PWR METER**

**KATRONICS KPC3 PACKET TNC WITH GPS**

**DIAWA CN101 HF VSWR METER**

**BENCHER RJ-2 CHROME CW KEY**

**MFJ-1621 PORTABLE HF ANTENNA WITH BUILT IN TUNER FOR 10-40 METERS**

**MFJ-112 DELUXE WORLD MAP CLOCK**

**WELLER WLC-100 5-40 WATT SOLDERING STATION.**

**PREMIER RD-8 DUAL BAND ANTENNA FOR UHF/VHF 6.5" WHIP FOR HANDHELD**

**PREMIER RD-78 DUAL BAND ANTENNA FOR UHF/VHF 15" FOR HANDHELD**

**PREMIER SB-752 8.5 AH PORTABLE POWER PACK, DELIVERS 3V, 6V, 9V, 12V**

The registration packet that had been initially planned to be sent out last month has been delayed until **APRIL**. NEW INFORMATION: Duane wants everyone to know that he needs 7-8 volunteers to assist in folding, stuffing, sealing, etc. of registration packages. This will occur on Tuesday April 9th at 7pm at the Granite Seminary Building across from Granite High School. Contact DeAnna at 288-1859 if you are interested in helping. Also, Note: Duane Anderson, our WIMU Chairman has a change in e-mail address. You can now reach Duane at [kj7ho@utah-inter.net](mailto:kj7ho@utah-inter.net)

443 East Brandt CT., #30

SLC, UT 84107 phone (801)288-1859

You can still visit our WIMU web page at

<http://www.xmission.com/~mistral/WIMU96.html>

**CORRECTED  
UTAH AMATEUR RADIO EXAMINATION  
SCHEDULE**

March 8, 1996

(For more details see the listing of "Programs by City" at the end.)

## THE MICROVOLT

Date	Location	Contact Person	Home Ph.	Bus. Ph.
------	----------	----------------	----------	----------

02/03/96 (Sat.)	Salt Lake C.	Gordon Smith, K7HFV	582-2438	534-8116
02/21/96 (Wed.)	Provo	Steve Whitehead, NV7V	465-3983	225-5200
02/27/96* (Tues.)	Salt Lake C.	Eugene McWherter, N7OVT	484-5355	
03/06/96 (Wed.)	Farmington	Brent Thomas, AC7H	292-8110	539-3700
03/20/96 (Wed.)	Provo	Steve Whitehead, NV7V	465-3983	225-5200
03/26/96* (Tues.)	Salt Lake C.	Eugene McWherter, N7OVT	484-6355	
04/06/96 (Sat.)	Salt Lake C.	Gordon Smith, K7HFV	582-2438	534-8116
04/17/96 (Wed.)	Provo	Steve Whitehead, NV7V	465-3983	225-5200
04/30/96* (Tues.)	Salt Lake C.	Eugene McWherter, N7OVT	484-6355	
05/04/96 (Sat.)	Ogden	Matt George, AB7GM	627-6064	
05/15/96 (Wed.)	Provo	Steve Whitehead, NV7V	465-3983	225-5200

Send additions or corrections to Gordon Smith, K7HFV

### EXAMINATION PROGRAMS BY CITY

City: Brigham City

Contact Person: Bob Anderson, AA7TR

VEC: ARRL Phone: 257-3021

Location: Basement of Zion's Bank at Main and First North

Schedule: Twice annually, spring and fall. Details vary.

Code tests at 6 p.m. Written tests at 7 p.m.

City: Farmington

Contact Person: Brent Thomas, AC7H

VEC: ARRL 637 East 2150 South

Bountiful, Utah 84010

Home Ph: 298-3322

Bus. Ph: 538-3700

Location: Davis County Jail Complex,

800 West State St.,

Farmington

Service entrance

Schedule: First Wednesday of Jan., Mar., July, and Sept., 7 p.m.

City: Logan

Contact Person: Paul Hansen, WO7N

VEC: ARRL 1676 East 1600 North

Logan, Utah 84321

Home Ph: 753-4843

Bus. Ph: 752-6425

Schedule: Second Saturday of April and October, 9:00 a.m.

City: Ogden

Contact Person: Matthew George, AB7GM

VEC: ARRL

473 Hiland Road

Ogden, UT 84404

Phone: 393-9195

Recorded exam information: 627-6064

Location: Weber State College, Science and Technology Building, Rm 228

Schedule: First Saturday of May and November, 8:00 a.m.

City: Provo

Contact Persons: Steve and Linda Whitehead

VEC: W5YI

497 South 700 East

Payson, Utah 84651

Home Ph: 465-3983

Bus. Ph: 225-5200

Location: Provo Campus of Utah Valley State College

Schedule: Third Wednesday evening of each month

Notes: Do not confuse this location with the larger Orem campus.

City: Salt Lake City

Contact Person: Gordon Smith, K7HFV

VEC: ARRL

632 University Street

Salt Lake City, Utah 84102

Home Ph: 582-2438

Bus. Ph: 532-3400 Ext. 8116

Location: Blue Cross/Blue Shield Cafeteria

2455 East Parley's Way

Main (west) building, West door

Schedule: First Saturday of Feb., Apr., June, Aug., Oct. and Dec.

20 w.p.m.: 8:00 a.m. 13 w.p.m.: 8:30 a.m. 20 w.p.m.: 9:15 a.m.

No code test needed: Any time between 8 and 10 a.m.

Notes: Preregistration is required. The owners of the building require that the door be kept locked. Those who pre-register will receive the code required to get in. Preregistration also speeds the session and gets licenses on the way faster after the session. It takes only a few minutes by phone or on the air. Gordon usually monitors 146.62.

City: Salt Lake City

Contact Person: Eugene McWharter, N7OVT

VEC: W5YI

536 E. Leland Avenue

Salt Lake City, Utah 84115

Home Ph: 484-6355

Location: Granite High Seminary Building

Approximately 33rd South and 5th East

Schedule: Last Tuesday of each month, 7 p.m.

Notes: This session is intended primarily for those seeking Novice, Technician, or Technician-plus licenses. Only elements 1A, 2 and 3A will be administered. Pre-registration is required.

#### THINGS TO BRING TO TEST SESSION

1. Two forms of ID (If licensed, your original and one form of ID)
2. \$6.05 - Cash or Check.
3. A copy of your license, and or copies of your pending 610 form or certificate of credit along with the original.
4. You may bring a filled out 610 form or a form will be available at the test session.
5. Pencils or pens.
6. You may bring a calculator but you must show that it is not pre-programmed.

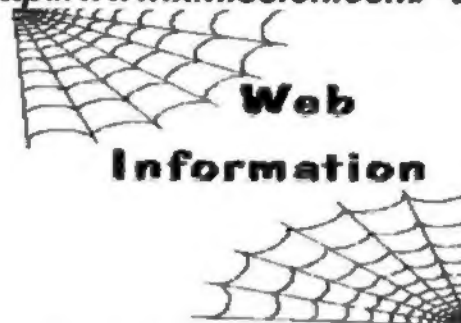
You may use a typewriter or lap top computer only if you make arrangements in advance.



## THE MICROVOLT

### UARC WEB PAGE ADDRESS!

<http://www.xmission.com/~uarc>



**If you would like to put anything on our web page contact John Buttles at the above address**



**Calling Period! Um...I mean...Field Day!**

For those of you who have forgotten what field day is, let me take this opportunity to refresh your memory. On the weekend of June 22-23 1996 amateurs from around North America will gather once again to participate in the infamous Field Day ritual. The purpose of this event will be to operate HF, VHF, and UHF from unusual locations and under less than optimum conditions. Some groups of amateurs will set-up their stations in public places such as Parks and shopping centers,, others will set up their station in their backyards, while still others, like UARC, will operate from the back-country.

(Not to be confused with the Australian outback) Our primary goal? To have as much fun as possible while making contacts with other field day stations.

What we have yet to decide on is the location. For the last two years field day has been held near Payson Lakes (about fifteen miles up Payson Canyon). This was a fine location with enough room for all to enjoy the great outdoors. (it was also convenient for the RV owners who enjoyed the great indoors!) However, many of you expressed a desire to relocate our field day site to a different place. Some suggested Wolf Creek Summit (Above Kamas in the High Uintahs), another suggested south of Stockton Utah in Tooele County. One person sarcastically suggested the aluminum tree East of Wendover! (Well...why not?) Hey, anything is game at this point. So come to the April meeting and cast your vote on this year's location for UARC's Field Day.

The UARC board has asked that I organize a committee to help in planning field day this year. Last year's committee had a blast, and I honestly can say that being on this committee is a whole lot of fun without a great deal of work.

This is a family event for HAMS and non-HAMS alike, and the committee is open to all. Help us make this year even better than last year! If you are interested in helping out this year, or you have any questions regarding field day, please feel free to call me at home at 593-0949.

Ray Allen (N7TEI)

880 E. Brookshire Drive,  
Kaysville, UT 84037

P.S. A sincere thanks to those who have already volunteered.

We would like to thank Dr. Clayton Clark for the excellent presentation that he shared with us on the 7th of March. If you were unable to make that meeting you missed out on an extraordinary meeting! Don't forget that Linda Reeder will be our speaker on April 4th.

## THE MICROVOLT



Can  
You  
Top  
That?

### An American Ham In Oz (Australia)

-David Eddy (KB7ZLH)

Crossing the International Dateline can cause all kinds of problems, like turning a 5 day business trip to Australia into a 22 day working vacation.

While I was in Australia I came to regret not carrying along my 2 meter rig. I thought that since I was going to be in Australia for such a short time that I never would have time to find out how to get licensed, let alone actually get the time to go to the office involved and make the application. If indeed I did find the time to apply, I figured that I would be gone before it was processed. **WRONG!** After 5 days had turned into 10 days and then 15 days I decided to at least research the process of Amateur Licensing in Australia. First off to the phone book to find the Australian equivalent of our FCC. In the Government section of the Brisbane phone book there is nothing under communications, radio, or frequencies. However in the S's there is S.M.A. (Spectrum Management Agency). To add insult to injury, the S.M.A. Office was only two blocks from my Hotel in Brisbane. It was Saturday morning but I decided to try anyhow so I gave the number a call, 238-6322 (if you're calling from the U.S. it's 011-61-7-238-6322) and was rewarded with a recording of an Australian Lady inviting me to call during business hours (0830 - 1630 M-F) or to come into the Offices in person during the same hours.

On Monday morning between calls to DHL and Australian Customs in Sydney (but that's a different story entirely) I again called S.M.A. and discussed the Licensing procedure. So here is the scoop.

Yes even an American Amateur Radio Operator may get an Australian Call Sign and operate in the land of OZ. All you need is.

- Your FCC Amateur License (the wallet version will do) or a certified copy.
- Your Passport, or other verifiable Photo ID
- AU\$51.00 (About US\$40.00)
- A properly filled out application, provided by S.M.A.



S.M.A. would then process your request (sounds bad huh?) and then issue you your Australian License and Call Sign. The good news is that like our FCC, S.M.A. has gone to a computerized system and the application is processed over the counter and you are then ready to operate for a term of four years in Australia.

If I had bothered to do any research at all prior to my departure I could have been on the air that afternoon in Australia. As it turned out, I was reduced to writing this piece so that other American Hams would have something to do in Australia besides singing Waltzing Matilda, or wandering the Gold Coast, but that too is another story.

**Spectrum Management Agency**  
424 Upper Roma Street  
Brisbane, Queensland  
Australia 4032  
61-7-238-6322



## UTAH AMATEUR RADIO CLUBS

**UARC** or Utah Amateur Radio Club meets the first Thursday of each month except the months of July and August. The meeting is held in the Theatre Building located on the Salt Lake County Fairgrounds (5200 S. and 200 E.) just south of Murray Park at 7:30 PM. There is a newcomer's meeting held prior to the main meeting at 7:00 PM.

The Davis County Amateur Radio Club meets the 2nd Saturday of each month at 10:00 AM at the Davis County Sheriff's Office, 800 West State street, Farmington Ut. Members and nonmembers are welcome. Dues are \$15.00 per year and can be paid at any club meeting. The Davis Club supports the 147.04 repeater. DAVIS ARES conducts a net each Thursday at 7:00 PM on 147.42 simplex. They also have a DAV node for packet on 145.07. For further information please contact Mel Parkes, NSUVP 299-3430.

## THE MICROVOLT

**OARC** or Ogden Amateur Radio Club meets the 3rd Wednesday of each month in Ogden at 7:00 PM. The meetings are held at the Red Cross building at 2955 Harrison BLVD. Members and nonmembers are invited. Dues are \$15.00 per year and can be sent to P.O. Box 3353, Ogden, Utah 84409. OARC supports the 146.90 repeater and conducts a net there Tuesdays at 7:30 PM. They also support the 146.82 repeater. The contact person is Jerry Peters WA7ADK who can be reached at 825-8798.

The VHF Society is a group dedicated to maintaining a system of repeaters in our area. Dues are \$10.00 per year and can be sent to P.O. Box 482 Bountiful Utah 84011-0482. The VHF Society holds a swap and traffic net for it's members each Tuesday night at 8:00 P.M. on the 146.940 repeater. For further information please contact Eldon Kearl KB7OGM at 571-9955.

Salt Lake County ARES (Amateur Radio Emergency Services) conduct a net each Wednesday Night at 8:00 PM on the 146.88 repeater. All amateurs are welcome to participate. Their in-person meeting is held the third Wednesday of each month. For more information please contact John Parken, KA7GZH at 278-5846 or Richard Evans N7PCE at 265-9346.

Utah Valley ARES holds their general meeting the 1st Tuesday of every month at 7:00 PM. They also conduct a net each Tuesday at 9:00 P.M. on the 147.34 repeater which is also linked to the 224.7 repeater. The contact person is Robert Earl, N7EGG at 225-8870

**MARA** or Mercury Amateur Radio Association is a world wide group of Radio Amateurs dedicated to training and traffic handling for emergency operation. They conduct VHF nets each Wednesday at 9:00 PM. They also conduct health and welfare traffic net on 3.873 MHz (80 meters). The Salt Lake area is on the 146.74 repeater and their contact person is Willy Peske N7VVL at 466-1114. The Ogden area is on the 145.49 repeater and the Provo area on the 145.37 repeater with Vince Nowmeyer N7MLP at 785-5611 as their contact person.

**UPRA** (Utah Packet Radio Association) holds their general meeting on the 2nd Saturday of each month at 2:00 PM at the State Capitol Annex Building north of the State Capital. All amateurs are welcome. The purpose of the club is to educate people who are new to packet and to coordinate packet activities. Their dues are \$15.00 per year and can be sent to P.O. Box 92 Riverton, UT 84065. Their contact person is Jack Christensen, KC7NX at 277-6629.

**UBET** (Utah Box Elder Thicket) holds a net every Wednesday at 8:00 PM on the 145.43, 448.300, 149.29 repeaters. This net is followed by a CW net at approx. 8:30. Net control is Phil Siofka KJ7LM, Garland UT.. They also meet the first Thursday of every month at 7:00 PM in the basement of the Zions Bank on the corner of main and first north in Brigham City. Their contact person is Stew Greenwood AB7BA at 863-2795.

**THE BRIGERLAND AMATEUR RADIO CLUB** meets the 2nd Thursday of the month (except June, July, and August) in the basement of the Sheriff's Office. They hold a net at 9:00 PM on the 147.20 repeater every Tuesday. Their contact person is Dean Stevens N7WVY at 753-2664.

**THE UTAH TCP/IP Users Group Of UTUG** is an informal group that discusses TCP/IP protocols and other packet information. They are geared to all levels of users, new and seasoned. They hold a weekly net Sundays at 8:00 PM on the 146.620 repeater. Their contact person is Matt Simmons KG7MH at 965-1038

**The High Valley Net from Habor** meets every Monday at 9:00 PM on the 147.18 repeater. Their contact person is Doug Neilson, N7PPW at 756-5927 or Joe Chenworth, KG7GY at 564-3598

**The University of Utah Radio Club** is open to University Staff, alumni and students. There is a fully equipped station available 24 hours a day. Their contact persons are Marvin Match KA7TPH at 581-6085 or Clint Turner KA7OEI at 972-5541

**The Salt Lake Community College Amateur Radio Club** is open to anyone. They would like to welcome interested parties to join them. They meet on the South campus in room N285 on the first Saturday of the Month at 3:00 PM. Please contact Keith KI7SL at 957-3247

**Rocky Mountain Radio Assn.** is open to all Utah hams and they support the 447.900, 448.400, 448.700 repeaters. Their net is on 447.800 and 52.525 (six meters) every Wednesday night at 8:00. Please contact Marc Peterson (KB7YJJ) at 977-1845 for info!

If there are any mistakes in here please send corrections to the MicroVolt Editor or call me at 286-1762- Thanks Cokie -Editor



## How Much Does It Cost

### To Get Into Ham

-Dink, KC7AW

How often have you been asked that question? And how difficult has it been to answer???

Well, I have been a ham for about thirty-six years and I have a ham station with all sorts of equipment. I can get on voice, radio tele-type, amtor, packet, CW, and whatever else with over 1000 watts. I have mobile stations, portable stations, auxiliary power, a 65 foot

## THE MICROVOLT

tower with all sorts of antennas on it and I have BIG BUCKS invested in my station that is in a separate room in my basement. I talk to stations in Japan, Australia, Europe, Peterson New Jersey and Horsecollar corners in Texas...

Fantastic...isn't it?

There is a twelve year old girl that has been a ham for about 6 months, who has a card table in her bedroom next to her bed with a small radio with about 60 watts that her father bought at a swap meet for one hundred dollars. She has for an antenna a wire that runs from the corner of her house to a tree in the backyard.

She too talks to stations in Japan, Australia, Europe, Paterson New Jersey and Horsecollar Corners in Texas...also fantastic isn't it?

A fellow I know is in to photography. he has an expensive single lens reflex camera, all sorts of filters, developing and enlarging equipment. He took a whole roll of shots of Bridal Veil Falls...

He wanted his son to take an interest in photography and gave him a cheap camera with which he also took one shot of Bridal Veil Falls. When the Dad developed the pictures his sons picture was as good, if not better, than the father's.

The morale of this story is that you can put as much or as little money in either hobby as you desire...a small camera or a small radio is an inexpensive way to start and surprisingly the person that you are talking to, or the person looking at your photo, doesn't know, or care, what equipment you are using.

-73 Dink (KC7AW)





## RULES OF UARC REPEATER USE

The members of UARC maintain several popular repeaters and autopatches in the Wasatch front area. These have proven to be very popular services over the years. As a UARC member you will have full access to these facilities.

The club has two repeaters on 9000-foot Farnsworth Peak, about 17 miles southwest of downtown Salt Lake City. They are on 146.62 MHz and 449.1 MHz (both with negative offset, as per the Utah bandplan). This site is particularly good for coverage to the north and west. It reaches Wendover, Nevada, and Malad City, Idaho. It also has moderately good coverage south along the Wasatch Front and has been worked as far south as Nephel. The 449.1 repeater has an autopatch covering Salt Lake City. The 146.62 machine, in accordance with a vote of the membership, does not have an autopatch.

The club also maintains a repeater on Lake Mountain, a 7500-foot site west of Utah Lake. It operates on 146.78 MHz with a negative offset. It has autopatches using telephone lines in Salt Lake City (with a calling area covering Draper to Layton) and in Orem (with a calling area including all but southernmost Utah County).

There are basically just two things the club asks of its repeater users: obey the FCC rules, and observe common courtesy.

As a licensee of repeaters, the club has a responsibility and commitment to ensure that use of its repeaters is in compliance with the Part 97 of the FCC's rules. Operators must be properly licensed, must transmit their callsigns at the required intervals, must not engage in any communication in which they have a pecuniary interest (including, particularly, sending messages to or for an employer), and must avoid any kind of intentional interference. Stations must not be used to play music or for broadcasting.

We hope that the need for actual enforcement will continue to be rare, but the club reserves the right to shut off a repeater, when necessary, to

## THE MICROVOLT

protect the licenses of the club and its trustee. Regular users may help keep the repeaters clean. Every operator should obtain and read a copy of Part 97. Repeater users are encouraged to help educate new operators in a friendly way. Let them know that transmission of a callsign is necessary at the end of a QSO, and that using amateur radio to inform an employer that one will be late to work is a violation.

Occasionally an unlicensed operator, or one who refuses to give a valid callsign, will appear on the air. These people are looking for attention, so don't give it to them. Ignore the unlicensed station. If a QSO was in progress, continue, and try not even to acknowledge that you have heard the problem station.

Courtesy is more difficult than rules compliance to define and enforce. The club officers do not intend to act as enforcers, but recommend that operators show consideration for each other. The club has over 600 members, so no one has an exclusive right to the repeaters. Multi-station QSO's or "roundtables" are effective ways to let a repeater serve more users. Operators should always leave space between transmissions so other stations may break in. Breaks should be recognized promptly and courteously. Newcomers and visitors should be made welcome. We strive to make our repeaters as fun and as memorable as the sites and attractions our guests visit.

As with other repeater groups in the region who sponsor "ragchew" repeaters, the use of DTMF paging, digital communications, and CTCSS tones is not permitted. This is to ensure that our repeaters are open to all and to avoid collisions with codes used to control the repeaters.

Most 2-meter repeaters in our area are free-access. Most autopatches and remote stations are not. We advise all operators who wish to use an autopatch or a remote-controlled station to contact the owner, be it a club or an individual, to ascertain the proper procedures and whether users are expected to contribute financially.

The UARC autopatches are open to members, to out-of-town visitors, and, in an emergency, to anyone. We require all frequent and local users of our autopatches to contribute to their operation, maintenance, and improvement, by joining UARC.

### USING THE UARC AUTOPATCHES

The Utah Amateur Radio Club sponsors autopatches on two repeaters, 146.78 and 449.100 MHz. These patches allow amateurs to make connections into the public phone system. Autopatch can be a very convenient feature if not abused, but it is not a replacement for cellular or mobile telephone service (or for regular phone service!). We ask that all use of these patches be in accordance with Part 97 of the FCC Rules and Regulations, and in harmony with club guidelines. Proper operation includes the following points (to be covered in more detail later):

- Always identify then release your carrier before attempting to bring up an autopatch.

-Never call an employer to report that you will be late to work, or use amateur radio to ask someone else to deliver such a message for you

-If you send an access code and a patch does not appear to come up, never leave the frequency without sending the hang-up code (usually "#")

#### BASIC PROCEDURE FOR PLACING AN AUTOPATCH CALL

1. If you are using the 449.1 repeater, make sure your radio is programmed for a CTCSS (or "PL") tone of 146.2 Hertz

2. Listen for at least ten seconds to ensure that the repeater is not in use

3. Send your callsign and announce your intention to use the patch. A typical transmission might be: "This is K7XXX for autopatch"

4. Release your carrier for at least two seconds and listen for any other activity that might be in progress on the repeater

5. Key your transmitter and send the access code. It will be one of the following

City called	146.76	449.1
Salt Lake City	*7	*
Provo	*5	(not available)

6. Release your carrier. Within a short period you should hear dial tone. If not, repeat step 4. (If several tries fail to get dial tone, the patch may be out of service, you may not have a good enough signal into the repeater, or there may be a problem with your DTMF tones. In any case, always send the "#" [number-sign or pound-sign] character before leaving the frequency.)

7. Conduct your phone call. If the called party is not familiar with amateur radio autopatches, you must make him aware of several things

A. The call is not private. There may be hundreds of people listening

B. Communication only works in one direction at a time. He cannot talk while you are talking and be heard. Some people think the connection has been broken when they hear the noise disappear as the mobile stops transmitting

C. Profane, indecent, or obscene language is not permitted

8. When you have completed the conversation but before hanging up the patch, give your callsign and the current date and time. This helps us locate times on the logging tape. (All autopatch traffic is recorded from a two-meter receiver.) If you don't know the time or date accurately, any information you have will help. For example, say "It's mid-afternoon on Saturday"

9. Hang up by sending the number-sign ("#") character. Always do this before leaving the frequency, even if the patch timed out or failed to come up

#### ADDITIONAL PROCEDURES

If the patch fails to come up after several access attempts, never leave the frequency without sending a

## THE MICROVOLT

number-sign ("#"). The patches are not located at the repeater site, they are at members' homes where more favorable phone rates can be obtained. They decode your tones at the same time the mountain site does. Therefore, it is possible, if your signal is marginal or if one site is malfunctioning, for a portion of the system to be activated. If you go away and leave without clearing the system, there may be undesirable affects to the control operator or to the next user, such as a log tape continuing to run or the time limit of the next call being shortened. Always send a number-sign even if nothing appears to have happened

The patches have timers that limit the length of calls. The Provo patch on the 146.76 repeater gives a warning series of beeps thirty seconds before it times out. Other patches have longer timers but terminate a call without warning. If your call should time out, send a number-sign to clear any portions of the system that may still be active

On 146.76, if you should mis-dial, or if you should decide while dialing that you have accessed the patch for the wrong city, it is not necessary to send a number-sign before redialing. Simply send the access code for the city you wish to reach, and listen for new dial tone.

#### ALLOWABLE AUTOPATCH USE

The Utah Amateur Radio Club completely supports the autopatch guidelines published by the American Radio Relay League. We agree that an autopatch should never be used when a telephone is available. The purpose of the autopatch is to provide a convenience to mobile and portable stations, not to circumvent toll charges. Do not use the patch from a fixed station or when commercial telephone service is available

The FCC rules prohibit any communication involving pecuniary interest to either control operator. This applies, particularly, to communications facilitating paid employment. The rule applies not only to autopatch use, but to amateur radio communications in general. Do not call your employer to report that you will be late to work. Asking someone else to make the call and relay your message is no better. Calling your spouse and asking that person to call the boss is no more legal than making the call yourself. The problem lies with the communication itself, not with the fact it is on the autopatch

It is very tempting to violate the business rule if you have an auto accident or get stuck in snow on the way to work. In the frustration of the moment, the message may seem to take on emergency priority. Don't jeopardize your license and the repeater's unless there is life or property at stake. Remember that the other 99.9 per cent of the population who do not hold amateur licenses also have accidents, get stuck, or have urgent errands come up. Employers are generally reasonable if you make every effort to let them know when you get to a place you can communicate

Other types of business calls to avoid include calling the office to see if messages have come in, calling a client to confirm an appointment or to come out to meet



you, and checking with the office to see if you should make other stops before returning. There are other bands and services specifically for these types of communications. If you need these services in your work, check with a local communications shop. Don't use the amateur bands for business.

Proper autopatch operation requires that you give your callsign at least twice: once before accessing the patch and again just before hanging up.

There are many attempts to use the patch by people who are not licensed, or for some reason refuse to identify. For this reason the club requires all legitimate users to identify before accessing the patch. This tells the control operator there is an amateur operator at the controls, not just someone with a stolen radio. Failure to identify at the beginning will likely result in the control operator terminating your call.

Due to abuse, 911 is locked out on the autopatches. Law enforcement authorities tell us that it works much better to have a live operator interface between the mobile and the 911 operator. If you have to make an emergency call, check first to see if there is someone that can make the call for you (possibly on another repeater). You may also wish to make a list of emergency numbers you would be most likely to need and carry the list with you. You might include the Utah Highway Patrol, your County Sheriff, and the city police in your home town.

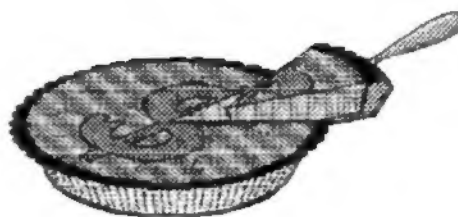
Abuse by unlicensed operators or operators who refuse to identify becomes an increasing problem. You can help solve this problem by getting as much information as you can when you hear one of these operators. Use your radio's "reverse" feature to switch your receiver to the repeater input frequency so you are listening to the bogus station directly rather than listening to the repeater. See if you can hear the station and, if so, how strong it is. Then report your observations (off the air) to one of the club officers or the autopatch monitor. If you would like to be of even more help, you might consider building up direction-finding equipment. Books and schematics are available along with addresses of companies that produce manufactured units. Check with the club officers. -73 de Gordon Smith K7HFV

## **HAPPY EASTER!**

### **FROM THE MICROVOLT STAFF**

#### **THOUGHT FOR THE DAY**

The best way to inspire fresh thoughts is to seal the envelope. (Or in my case, send the Microvolt to the printer.)



## **Utah Amateur Radio Club Financial Statement For 1995**

Category Description 1/95-12/95

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### **INCOME/EXPENSE**

#### **INCOME**

Membership dues	7,753.00
Book Sales Revenue	2,170.36
Interest Earned	575.66
Steak Fry Revenue	310.00
Misc	34.00
Donations	12.00

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<b>TOTAL INCOME</b>	<b>10,855.02</b>
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#### **EXPENSE**

Microvolt expenses	1,649.98
Books, inventory purchase	1,570.68
Capitol items purchased	1,100.00
Steak Fry Expenses	1,042.52
Field Day	889.15
Repeater Phone Costs	837.96
To other organizations	693.00
Administrative overhead	522.77
Storage	408.00
HAM HOT LINE	262.56
Postage	134.77
Project Costs	108.00
Misc	48.24

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<b>TOTAL EXPENSES</b>	<b>9,267.63</b>
<b>TOTAL INCOME/EXPENSE</b>	<b>1,587.39</b>

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Checking balance	4,936.21
Ending Balance	5,947.94
Savings Balance	12,106.34
Ending Balance	13,267.28



## From The Desk Of The Exec. Vice President

The "forbidden room" is an irresistible force that no child can resist. Sneaking in the doorway, listening carefully for authoritative footsteps, to peer at the mechanisms, lights, dials and wires in my best friend's father's ham shack. I never could understand where the "shack" was anyway. Perhaps it was a hidden room only accessible if the right dial was turned. One good scolding is all it took to keep hands off the radio, but not from sneaking. This was guy "guy-stuff" and could not be left unexplored (well, at least not until one more good scolding to stay off tower).

How wonderful (and I do mean full-of-wonder) it has been to discover radio thanks to my brother Stan N7PLE. He upgraded his radio, I bought his and took the class at Granite High School from Jerry Bennion WR7N and John Bradshaw KA7TGR, and the rest, as they say, is history.

I started going to the UARC meetings—okay, the first couple of them were a bit over my head, technically (I had limited background in electronics) but hangin' in there I've gone from a total blank to at least having a clue on the stuff. The socializing and post meeting pizza are irresistible, and ham-radio people are the best and funnest group of people it has been my wild fortune to discover.

It is still a bit intimidating to talk with some of the HAMS who know absolutely EVERYTHING about radio, antennas, impedance, and lightening. (ref.: The Gordon in the morning show) but we all get to learn sometime and at least I've never started an electrical fire like some of us have (ref.: KA7TGR).

Ham radio is a welcome addition to my life. I encourage you to get as involved as you like. On behalf of the UARC board, considered yourself invited to volunteer. Your talents and interests are welcome in whatever area of radio you want to focus on. Until then—I'll see you on the radio.



-Cindy Peters KB7"OUT"  
UARC Executive Vice President, 1996

## THE MICROVOLT



Hot News

### What Happened To The Microvolt?

-Cokie Eddy Microvolt Editor

Many people have come to me and asked me what has happened to the Microvolt, so I decided to leave you a note. It has changed. (Grin) Well, you asked! No really...what happened went more like this...

I was scanning through some old Microvolts and ran into some very nice issues. I could not believe how much personality this ol' rag had at one time. The Microvolt Editor was Lon Stuart. Or rather, his trolls. It was fun to read and was very informative. The HAMS did a lot with their club, and added a great touch to the Microvolt. It's nice when you get input from the readers. Afterall, this is a newsletter to the people, from the people, and that is who should be involved. The Microvolt is not Lon, Gordon, Jerry, Richard, Cindy or myself. (If I have left anyone out, I apologize, I mean nothing by it.) It is "the people" trying to inform the people what is going on in the wide world of amateur radio.

SO, I looked at these old Microvolts, and asked Gordon how much it would cost to get them printed like this again. The exact numbers weren't readily available, but much like Gordon, he told me that if I wanted he could find out. That if I wanted a cheaper printer, or just a printer closer to my house, then I could move the Microvolt printing over here. That it was totally up to me. This was great! I had no idea that I could chose or change the printer. I had no idea that I had any power or could make any decision concerning our newsletter. I thought that everything was engraved in stone in our amateur radio newsletter club bylaws or something.

I asked our treasurer, Chuck, how much we spent on Microvolt printing. And he told me! So I started to look. Printing was awful. No one wanted to "print" the Microvolt for the same price that we were having a company copy it. They sure did not want to put it on better bond paper...until I called Don Baumgartner at Beehive Printing. He is a Ham and he is also responsible for the printing on some of the great issues that Lon's trolls put out. He agreed to do it for the same price. So, there you have it, that's what happened to the Microvolt! I hope you enjoy it.

-73 Cokie Eddy KC7MDV

If I have not returned any of your calls, it is not because I am ignoring you, I am just a little wrapped up lately with going back to work at Packard Bell. - KC7MDV



Please Note that this space is under construction...next month we will have a NET REMINDER. Sorry...

**OOPS!**  
**WE GOOFED!**

- The Microvolt staff would like to let everyone know that we have received a lot of favorable responses on the 1996 UARC Program Committee Input Sheet. However, the trolls of Lon's struck again. The input sheet was laced with obnoxious little typos that were not noticed until the release of the Microvolt.
- The UARC Web page was put in incorrectly, but is correct in this issue. (gee that's hard to say!)
- Apologize to Duane Anderson for putting his call under Chuck Johnson's name. It also has been corrected. (Unless Chuck wants to keep it and Duane wants to give it up, then that is up to the two of them.)

- The phone numbers for Matt George and Paul Hansen are incorrect in the last issue. The ones in this issue are correct.



## UTAH HAMFEST STUFF

Dear Friends,

We have received an answer back from the club interested in hosting Utah Hamfest 97. We need to meet to discuss this and our plans for 1997. We will meet on Saturday, March 30 at 10:00 A.M. at Weber State University, upstairs in the Engineering and Technology Building (Room 227). Please bring along anyone who might be interested in serving on the Utah Hamfest Committee.

-73

Kathy Rudnicki (N7JSH)

## THE MICROVOLT High Spirited Handi- Hams And Helping Them Get Licensed!



by Gordon Smith

Some of us found getting an amateur radio license hard enough even though our senses and motor skills were fully intact. Think what it must be like for people who are blind, deaf, or severely crippled! Getting into amateur radio can be a hard challenge. And yet, these people are ones who could benefit uniquely from what the hobby has to offer.

Happily, there is an organization dedicated to helping these people. It is called Handi-Hams, and it will be the focus of our next meeting, to be held April 4. Linda Reeder, N7HVF, a very active blind ham in our area, will be in charge. The program will feature two short video programs: "Courage in the North," and "Courage on the Coast," detailing the work of two Handi-Hams camps. These camps provide unique education and testing opportunities for handicapped people who would like to enter ham radio or advance through its ranks.

The challenges facing a handicapped person don't end with getting a license. How does a blind person tune an antenna tuner or tell what frequency he is on? Many Handi-Hams volunteers have devised clever solutions over the years. The organization includes volunteers throughout the country willing to lend a hand to handicapped operators in their areas.

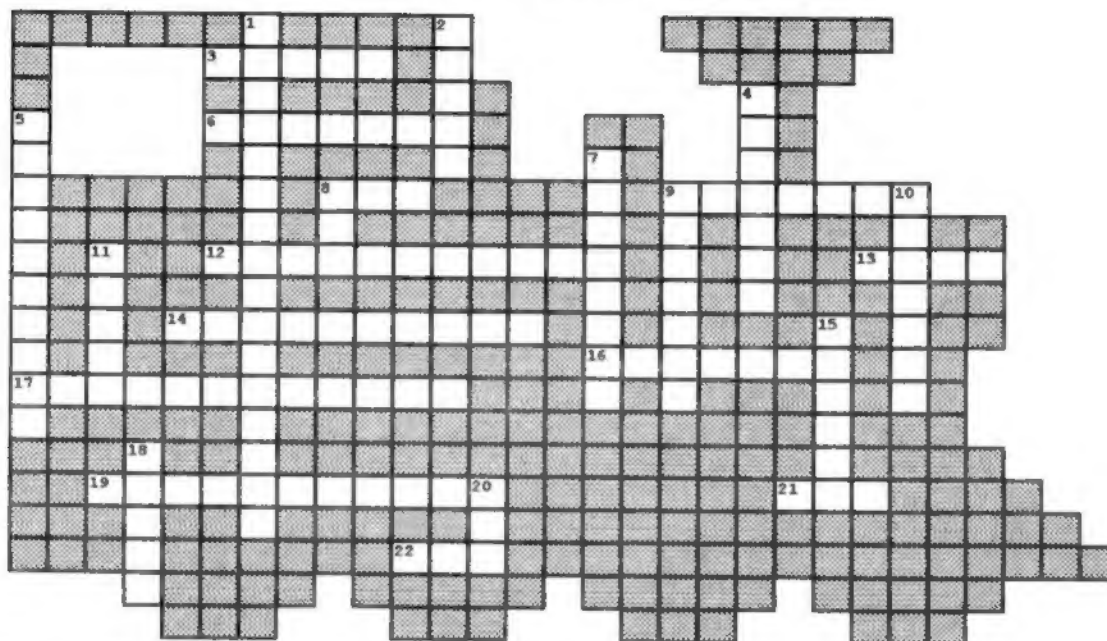
Come see how these problems can be solved and how much can be achieved by handicapped operators. Perhaps you will even want to volunteer your services to help.

The meeting will be April 4, at 7:30 p.m. There will be the usual newcomers' meeting at 7, along with books to buy and friends to greet.

The meeting will be held in the Little Theater building in the Salt Lake County fairgrounds.

(Neither the building nor the street is marked with a number, but the address is approximately 5150 South and 150 East. Follow the sign that says "Square Dancing".

### TRAINING PUZZLE FOR NEW HAMS



#### ACROSS

3. Everyone wants one of these radios.
6. Everyone wants one of these radios.
8. What everyone is going to have at the steak fry.
9. What kids can have at the steak fry.
12. 1996 President of UARC
13. The book lady (HU)
14. KA7GZH
16. \_\_\_\_\_ radio.
17. He knows his Propagation!
19. He has been President more times than one can count.
21. Join the ARRL and get this magazine!
22. ULTRA HIGH FREQUENCY

#### DOWN

1. She was the Assistant Microvolt Editor
2. She should be President of UARC someday.
4. What you call the place where you operate.
5. They make the 202
7. This years secretary.
8. The people that makes the rules.
9. If this issue was "for real", what you might have to wear to cover your head.
10. Where the steak fry will be this year.
11. Program Chairperson
15. They attacked the Microvolt for a few years, thanks to Lon Stuart.
18. Microvolt Editor
20. The last three in Linda's call.